

claims.

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What is claimed is:

1. A transceiver comprising:

5 a transmission channel condition evaluator for  
evaluating a transmission channel condition based on a  
signal received from a transmitter-receiver; and

10 a modulation method selector for determining a  
modulation method to be used in transmitting a signal to the  
transmitter-receiver based on the evaluated transmission  
channel condition and a difference between transmission  
power of the transceiver and that of the transmitter-  
receiver.

15 2. The transceiver of claim 1, wherein the modulation  
method selector determines the modulation method among a  
plurality of modulation methods that include QPSK(Quadrature  
Phase Shift Keying), 16QAM(Quadrature Amplitude Modulation)  
and 64QAM.

20 3. The transceiver of claim 1, wherein the modulation  
method selector determines the modulation method based on  
transmission power information included in the signal  
received from the transmitter-receiver, the transmission  
power information representing a transmission power of the  
25 transmitter-receiver.

4. The transceiver of claim 2, wherein the modulation method selector determines the modulation method based on transmission power information included in the signal received from the transmitter-receiver, the transmission  
5 power information representing transmission power of the transmitter-receiver.

5. An FWA(Fixed Wireless Access) system with a wireless base station and a plurality of wireless fixed stations,  
10 wherein each of the wireless fixed stations includes the transceiver according to claim 1 and said each of wireless fixed stations communicates with the wireless base station by using the transceiver.

15 6. The FWA system of claim 5, wherein the modulation method selector determines the modulation method among a plurality of modulation methods that include QPSK(Quadrature Phase Shift Keying), 16QAM(Quadrature Amplitude Modulation) and 64QAM.

20 7. The FWA system of claim 5, wherein the modulation method selector determines the modulation method based on transmission power information included in the signal received from the transmitter-receiver, the transmission  
25 power information representing transmission power of the transmitter-receiver.

8. The FWA system of claim 6, wherein the modulation method selector determines the modulation method based on transmission power information included in the signal  
5 received from the transmitter-receiver, the transmission power information representing transmission power of the transmitter-receiver.